FIG. 1

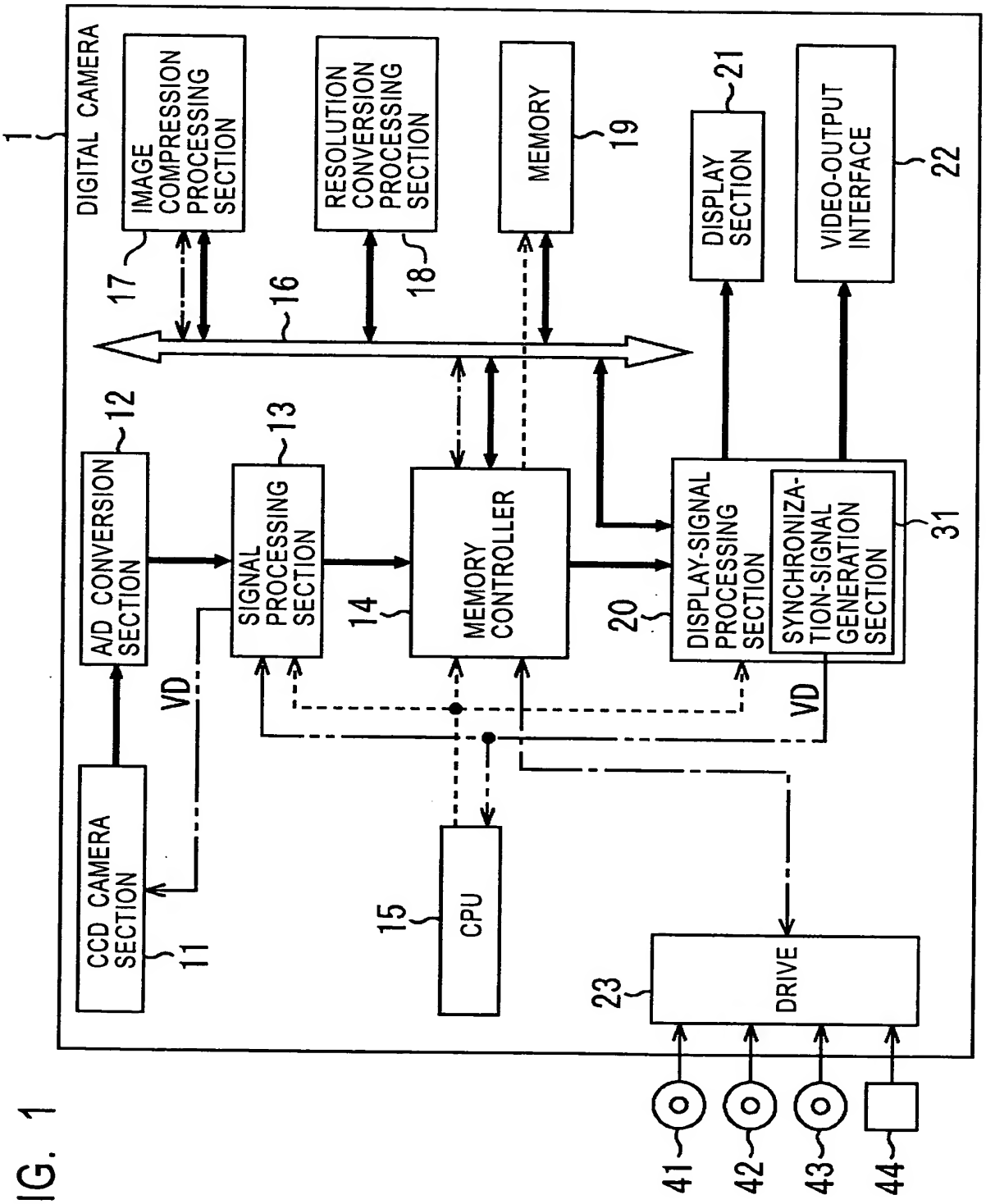

1
DIGITAL CAMERA
IMAGE COMPRESSION PROCESSING SECTION
17
RESOLUTION CONVERSION PROCESSING SECTION
18
MEMORY
19
DISPLAY SECTION
21
VIDEO-OUTPUT INTERFACE
22
16
12
A/D CONVERSION SECTION
13
SIGNAL PROCESSING SECTION
14
MEMORY CONTROLLER
20
DISPLAY-SIGNAL PROCESSING SECTION
SYNCHRONIZATION-SIGNAL GENERATION SECTION
31
VD
VD
CCD CAMERA SECTION
11
15
CPU
23
DRIVE
41
42
43
44

FIG. 2

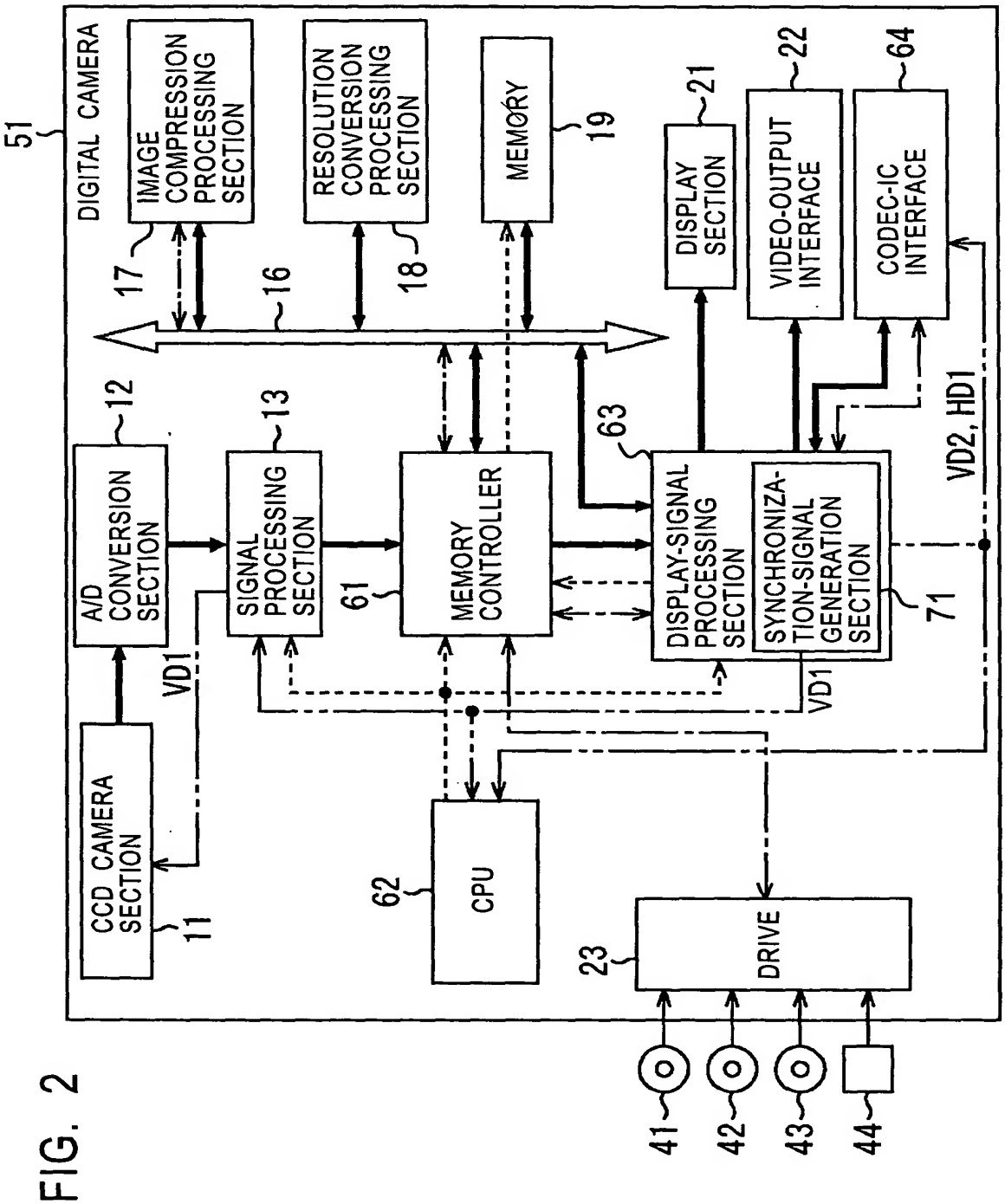

51
DIGITAL CAMERA
IMAGE COMPRESSION PROCESSING SECTION
RESOLUTION CONVERSION PROCESSING SECTION
MEMORY
19
DISPLAY SECTION
21
VIDEO-OUTPUT INTERFACE
22
CODEC-IC INTERFACE
64
17
16
18
12
13
63
A/D CONVERSION SECTION
SIGNAL PROCESSING SECTION
61
MEMORY CONTROLLER
DISPLAY-SIGNAL PROCESSING SECTION
SYNCHRONIZATION-SIGNAL GENERATION SECTION
71
VD2, HD1
VD1
VD1
CCD CAMERA SECTION
11
62
CPU
23
DRIVE
41
42
43
44

FIG. 3

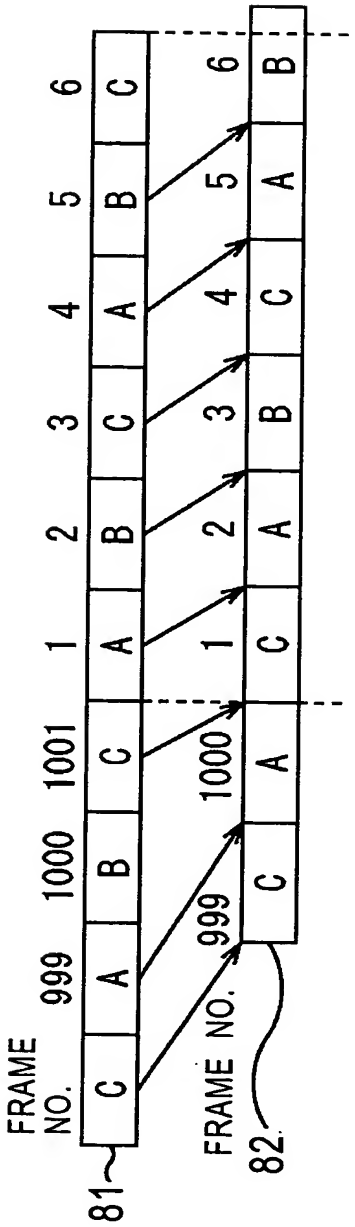

FRAME NO.
999
1000
1001
1
2
3
4
5
6
C
A
B
C
A
B
C
A
B
C
A
B
C
A
B
C
A
B
81
82
FRAME NO.
999
1000
1
2
3
4
5
6
C
A
C
A
B
C
A
B
C
A
B

FIG. 4

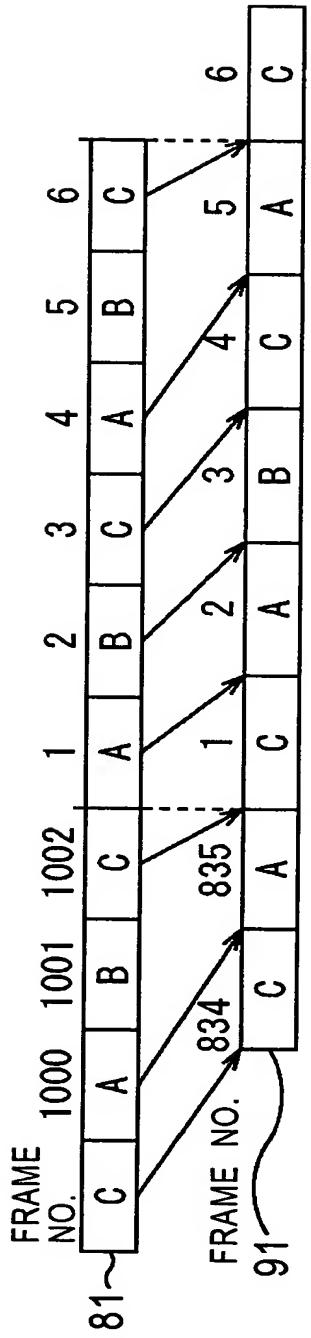

FRAME NO.
1000
1001
1002
1
2
3
4
5
6
C
A
B
C
A
B
C
A
B
C
A
B
C
A
C
81
834
835
1
2
3
4
5
6
FRAME NO.
91

FIG. 5

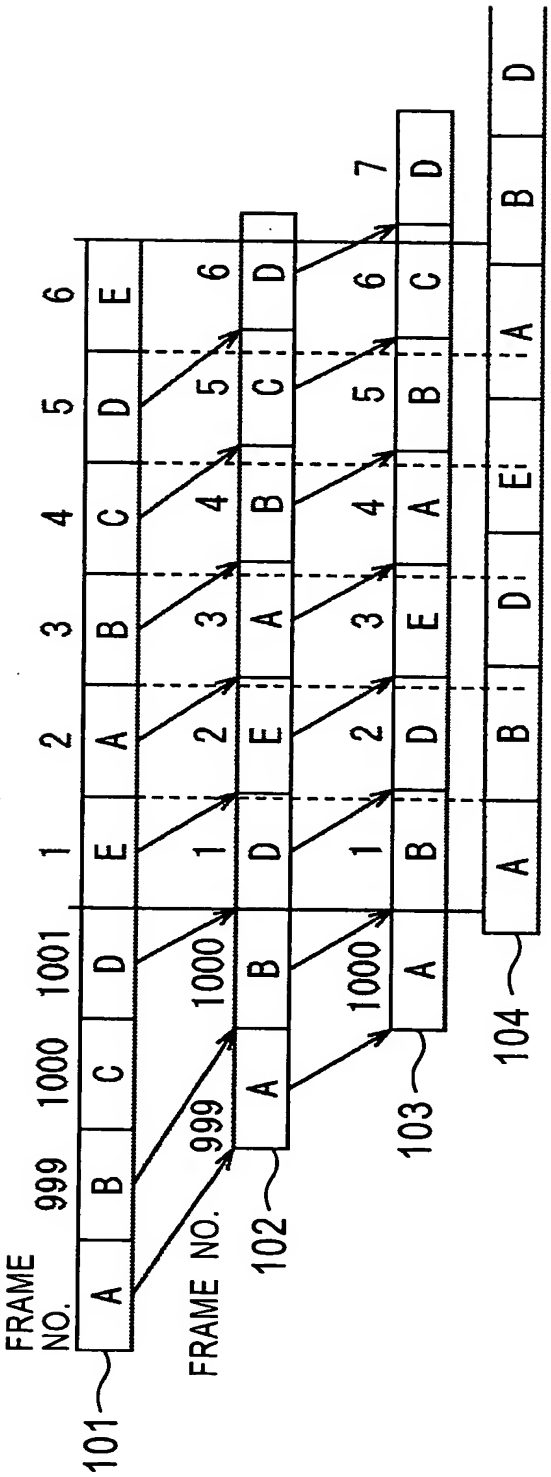


FIG. 6

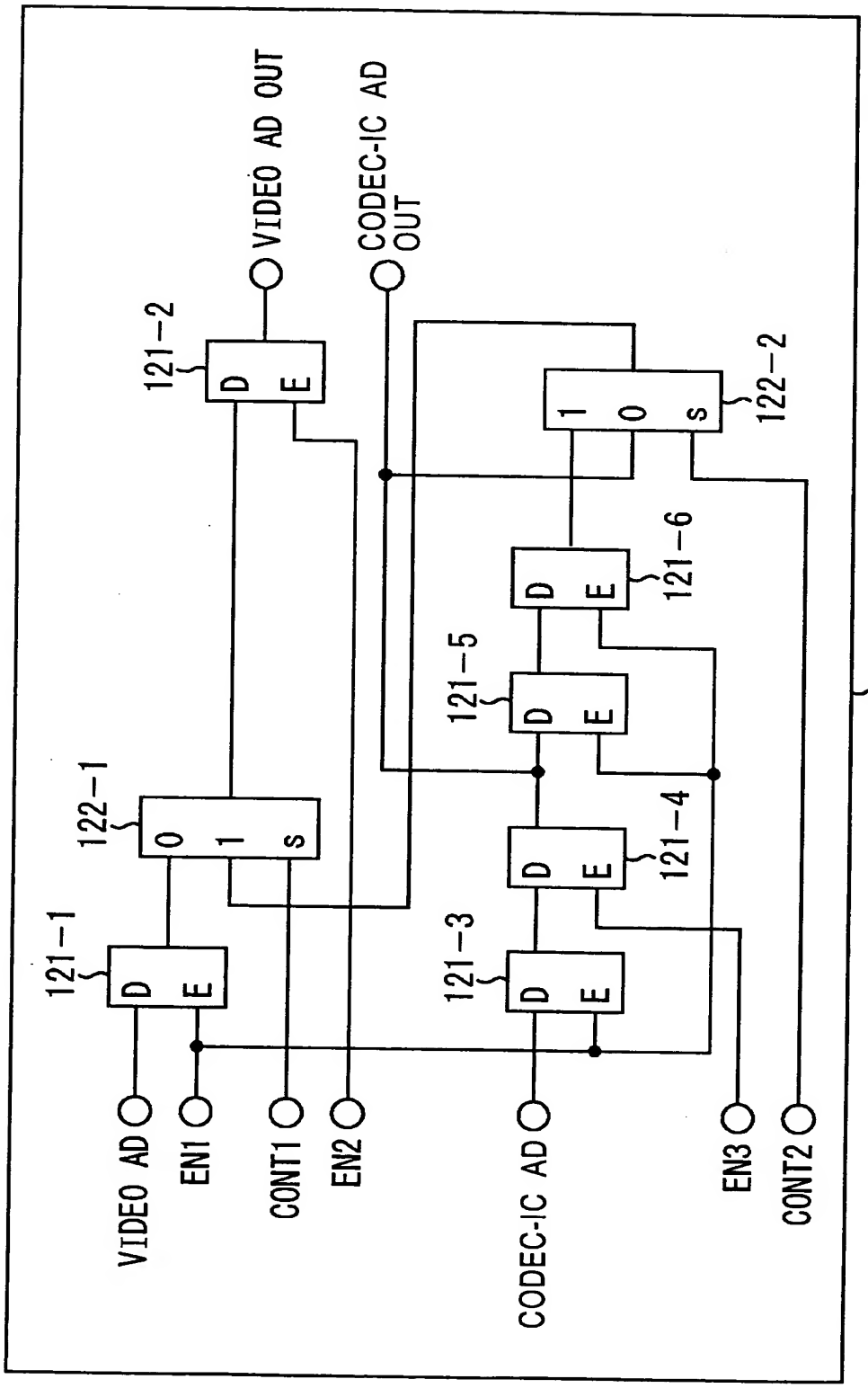

VIDEO AD OUT
CODEC-IC AD OUT
121-2
122-2
121-6
121-5
121-4
121-3
121-1
122-1
111
VIDEO AD
EN1
CONT1
EN2
CODEC-IC AD
EN3
CONT2
D
E
0
1
S

FIG. 7

INPUT			OUTPUT
EN	CLK	D	OUT
L	×	×	QO
H	L	×	Q
H	H	×	Q
H	↑	L	L
H	↑	H	H

FIG. 8

INPUT			OUTPUT
s	0	1	OUT
L	L	×	L
L	H	×	H
H	×	L	L
H	×	H	H

FIG. 9

VIDEO MODE	CODEC MODE	EN1	EN2	EN3	CONT1	CONT2
NTSC	NTSC	30Hz	NTSC FRAME	NTSC FRAME	0	—
PAL	NTSC	30Hz	PAL FRAME	NTSC FRAME	0	—
NTSC	PAL	30Hz	NTSC FRAME	PAL FRAME	0	—
PAL	PAL	30Hz	PAL FRAME	PAL FRAME	0	—

FIG. 10

VIDEO MODE	CODEC MODE	EN1	EN2	EN3	CONT1	CONT2
NTSC	NTSC	30Hz	NTSC FRAME	NTSC FRAME	1	0
PAL	NTSC	30Hz	PAL FRAME	NTSC FRAME	1	1
NTSC	PAL	30Hz	NTSC FRAME	PAL FRAME	1	1
PAL	PAL	30Hz	PAL FRAME	PAL FRAME	1	0

FIG. 11

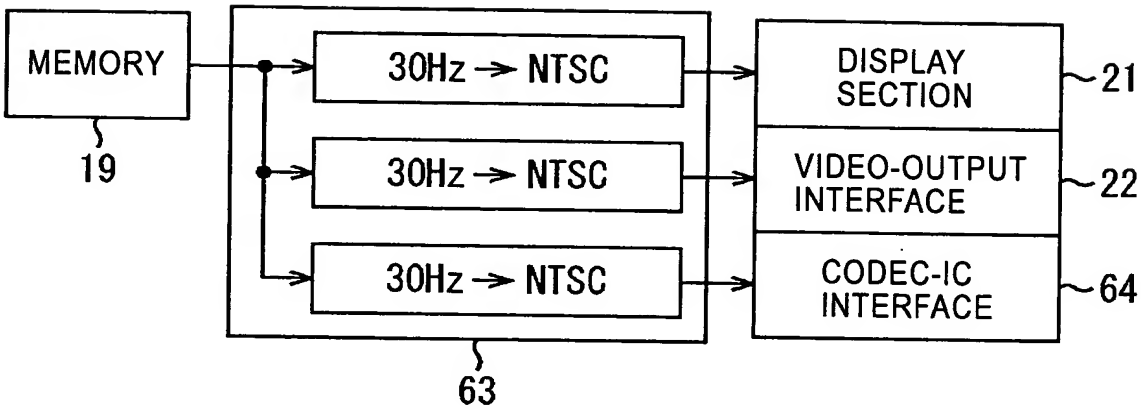

MEMORY
19
30Hz → NTSC
30Hz → NTSC
30Hz → NTSC
63
DISPLAY SECTION
21
VIDEO-OUTPUT INTERFACE
22
CODEC-IC INTERFACE
64

FIG. 12

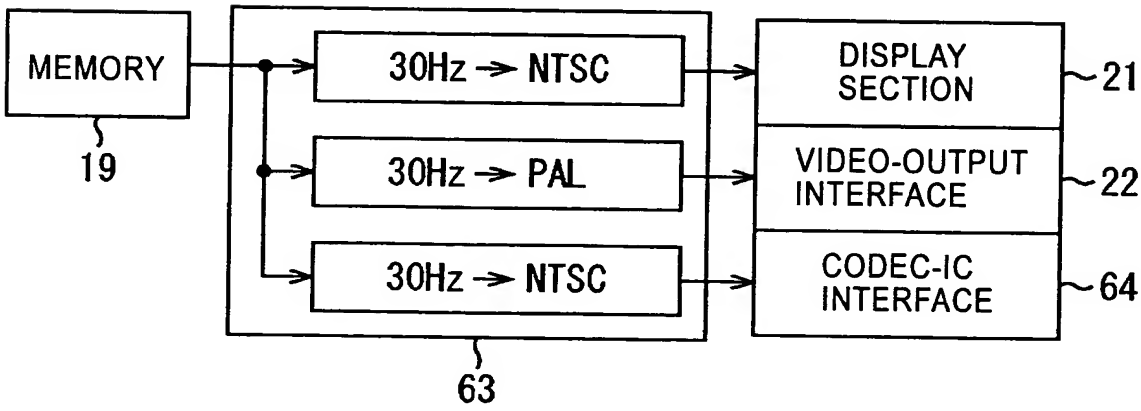

MEMORY
19
30Hz → NTSC
30Hz → PAL
30Hz → NTSC
63
DISPLAY SECTION
21
VIDEO-OUTPUT INTERFACE
22
CODEC-IC INTERFACE
64

FIG. 13

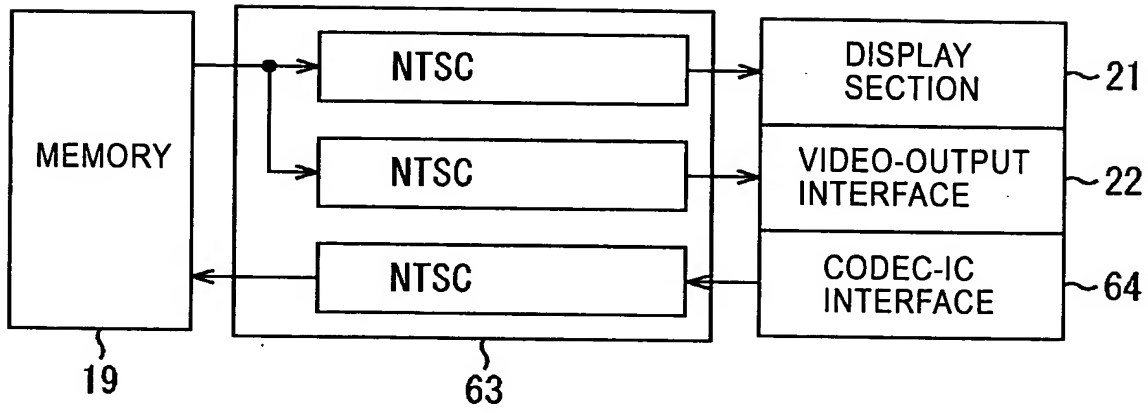
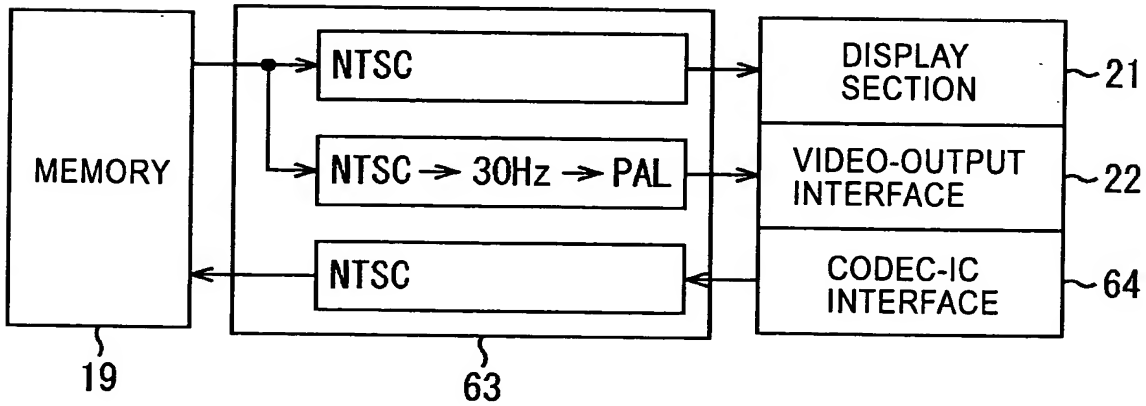

MEMORY
NTSC
NTSC
NTSC
DISPLAY SECTION
VIDEO-OUTPUT INTERFACE
CODEC-IC INTERFACE
21
22
64
19
63

FIG. 14


MEMORY
NTSC
NTSC → 30Hz → PAL
NTSC
DISPLAY SECTION
VIDEO-OUTPUT INTERFACE
CODEC-IC INTERFACE
21
22
64
19
63